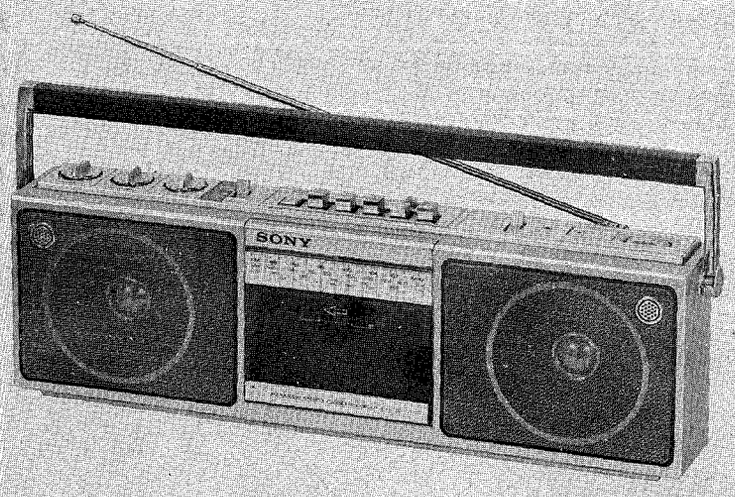
CFS-5L

AEP Model
UK Model



FM/MW/LW STEREO CASSETTE CORDER

SPECIFICATIONS

Radio section

Frequency range	FM 87.6–107 MHz MW 530–1,605 kHz (566–187 m) LW 150–255 kHz (2,000–1,176m)
Antennas	FM: Telescopic antenna MW/LW: Built-in ferrite bar antenna

Tape recorder section and general

Recording system	4-track 2-channel stereo
Fast winding time	Approx. 1 min. 30 sec. with Sony cassette C-60
Frequency response	60–8,000 Hz
Speakers	Two, approx. 10 cm (4 inches) dia.
Power output (at 10% harmonic distortion)	2W x 2 at dc operation
Inputs	Two external microphone input jacks (mini-jack) sensitivity 1.38 mV (–55 dB) for low impedance microphone
Outputs	Headphone jack (stereo minijack) for 8–32-ohm impedance headphones
Power requirements	9 V dc, six batteries IEC designation R14 (size C) DC IN 9 V jack accepts; ac power adaptor AC-230A (supplied) available in the United Kingdom for use on 240 V ac, 50 Hz. available in continental European countries for use on 220 V ac, 50 Hz.
Power consumption	13 W ac
Battery life	Approx. 2.5 hours with Sony SUM-2(NS) New Super batteries Approx. 4 hours with Sony Eveready AM2 Alkaline batteries
Dimensions	Approx. 441 x 140 x 76.5 mm (w/h/d) ($17^3/_8$ x $5^5/_8$ x $3^1/_8$ inches) not incl. projecting parts and controls and handle
Weight	Approx. 2.32 kg (5 lb 2 oz) incl. batteries

Tape Transport Mechanism Type	MDS-12VS1

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

SONY®

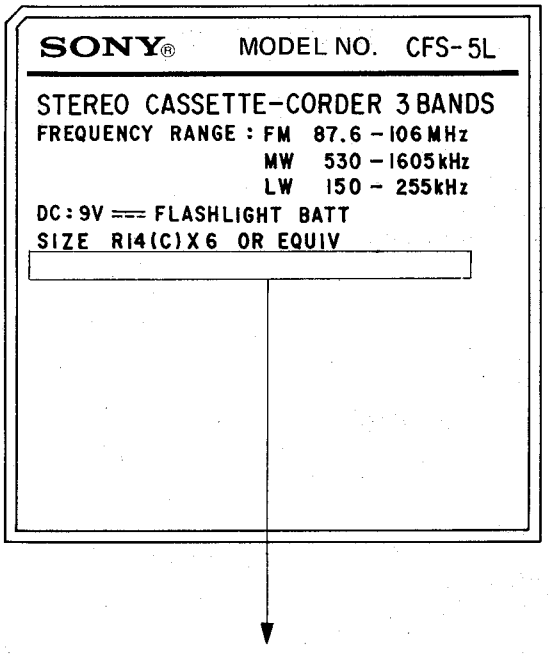
SERVICE MANUAL

FEATURES

- A cassette-corder combined with a high-quality 3-band radio.
- Simplicity of recording—merely insert a cassette and depress one button.
- Automatic music sensor (AMS) system for automatic playback from the beginning of the selection being played or the following selection.
- Record muting operation for creating blank intervals on the tape during recording, eliminating unwanted program material.
- With the Sony variable level recording monitor system, a program to be recorded may be listened to at any desired sound volume and tone control settings without affecting the recording.
- Automatic shut-off mechanism activates at the end of the tape in record or playback mode.
- A flywheel on the oversized tuning knob makes tuning smooth.
- Two built-in electret condenser microphones for picking up sound with true fidelity.
- Two external microphone jacks for stereo recording.
- Two different power sources: batteries and house current.

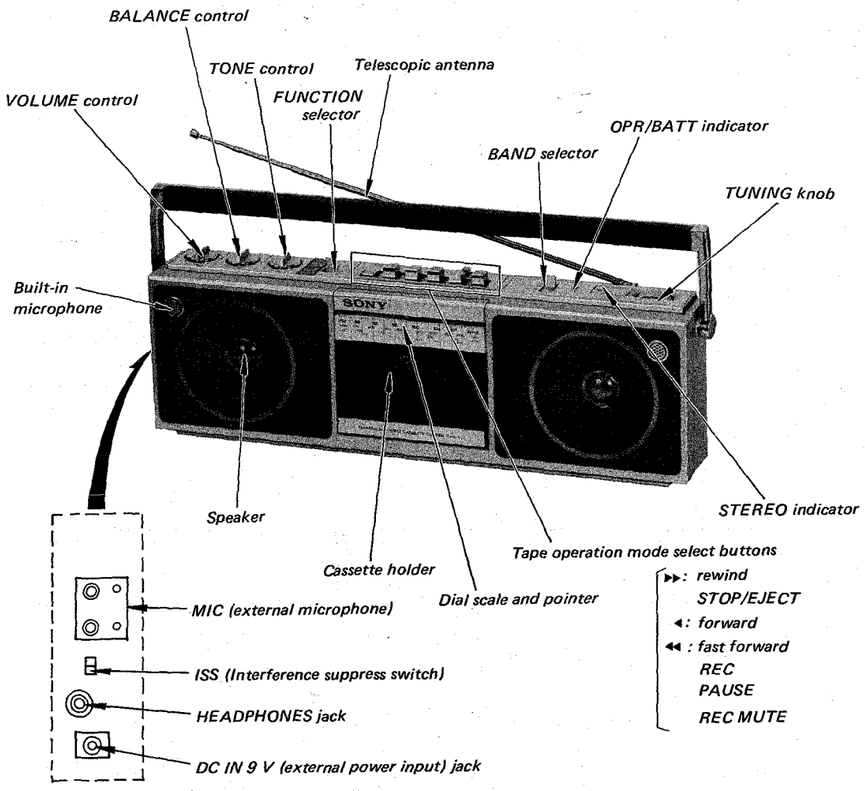
MODEL IDENTIFICATION

– Specification Label –


SONY®
MODEL NO. CFS-5L
STEREO CASSETTE-CORDER 3 BANDS
FREQUENCY RANGE : FM 87.6 – 106 MHz
MW 530 – 1605 kHz
LW 150 – 255 kHz
DC : 9V ⎓ FLASHLIGHT BATT
SIZE R14(C) X 6 OR EQUIV

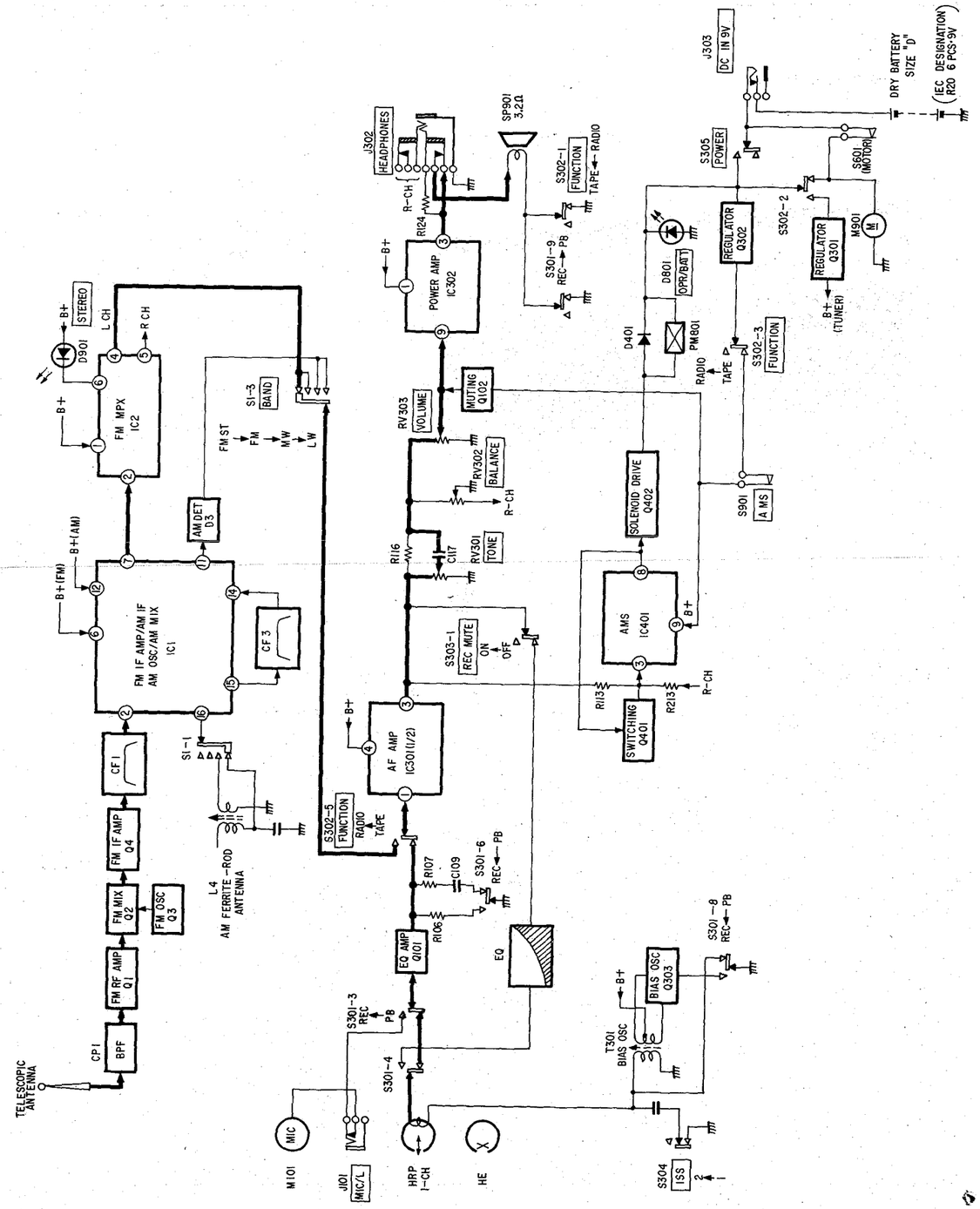
- AEP model : Made in Taiwan Republic of China
- UK model : Made in Taiwan

LOCATION AND FUNCTION OF CONTROLS



SECTION 1
OUTLINE

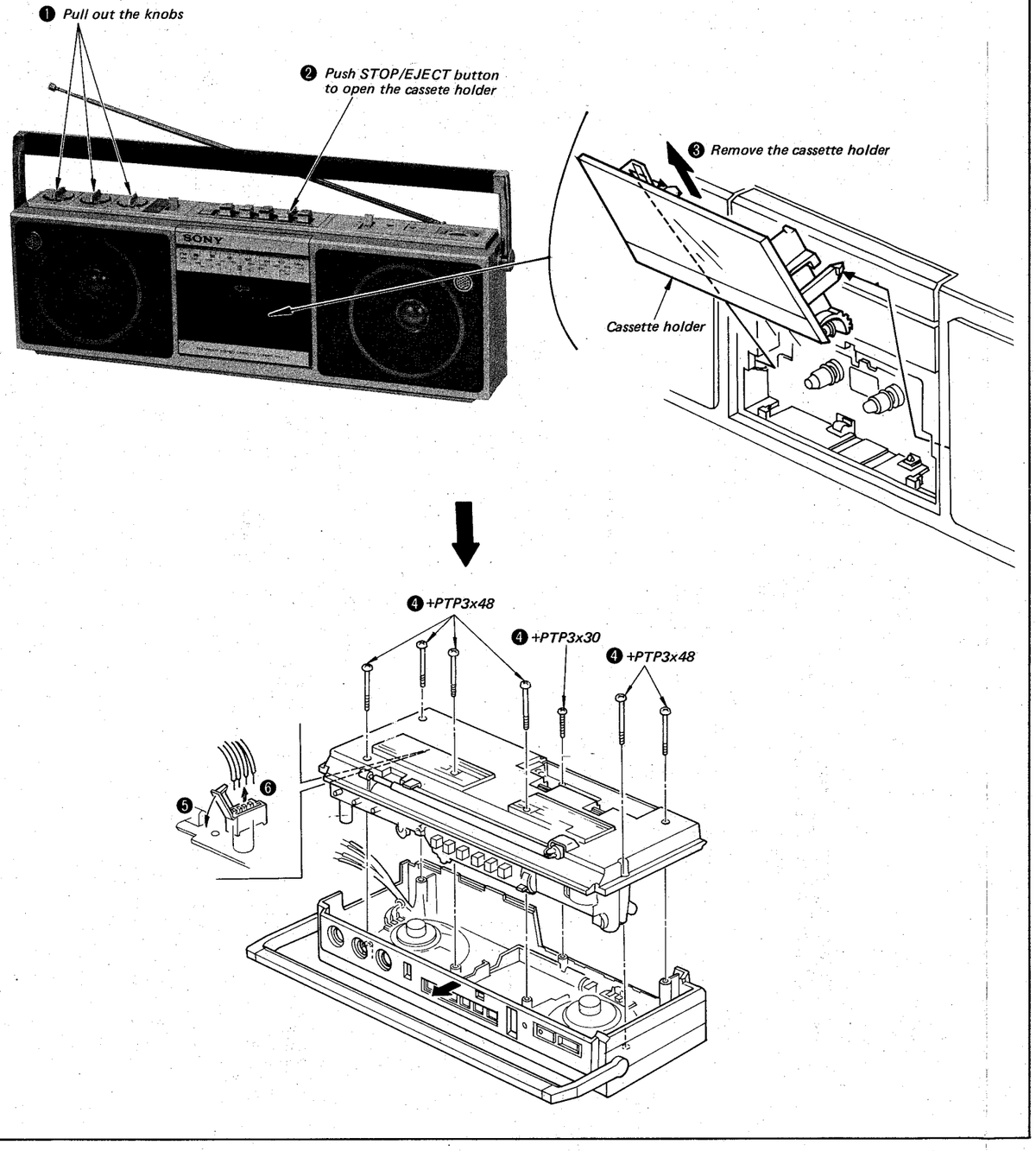
1-1. BLOCK DIAGRAM

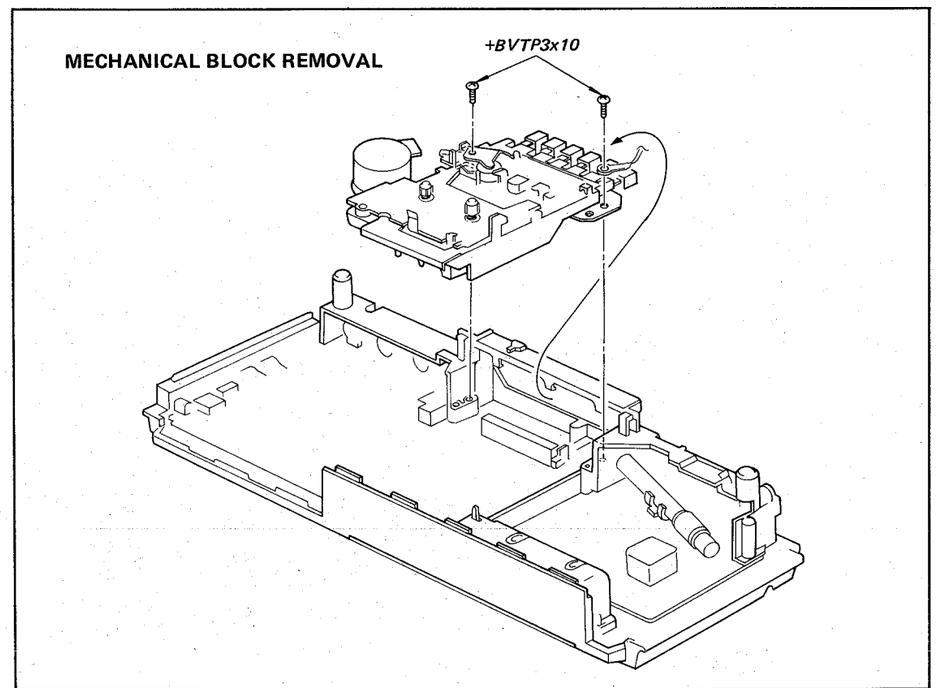


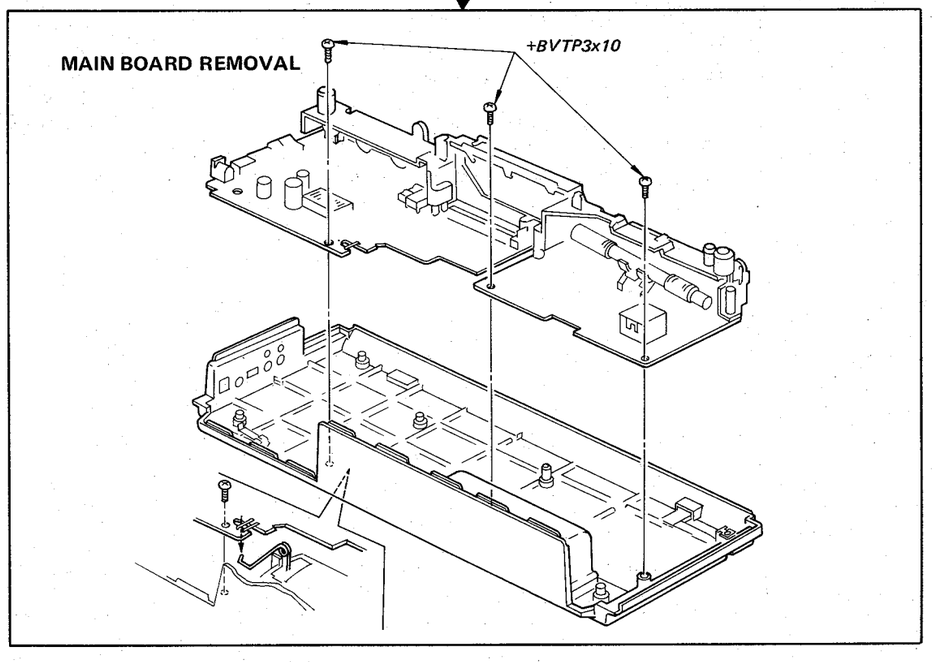
SECTION 2
DISASSEMBLY

2-1. REMOVAL

- Follow the disassembly procedure in the numerical order given.

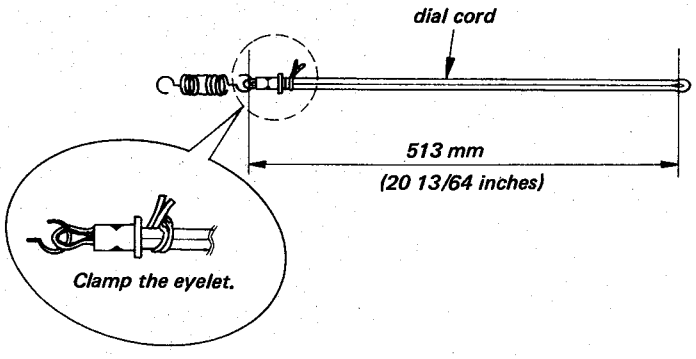






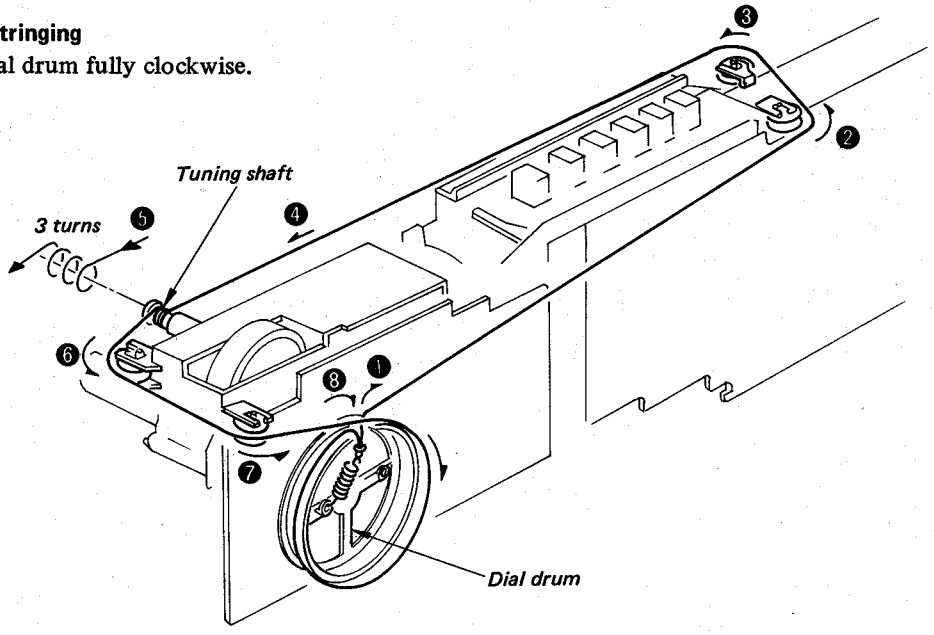
2. DIAL CORD STRINGING

(1) Dial Cord Preparation



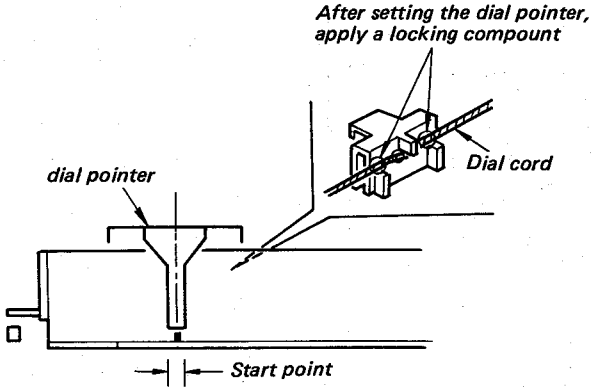
(2) Dial Cord Stringing

- Turn the dial drum fully clockwise.



(3) Dial Pointer Setting

- Turn the tuning shaft fully counterclockwise.



Set the dial pointer to the center of the start point.

SECTION 3
ADJUSTMENTS

1. MECHANICAL ADJUSTMENTS

TAPE RECORDER SECTION

PRECAUTION

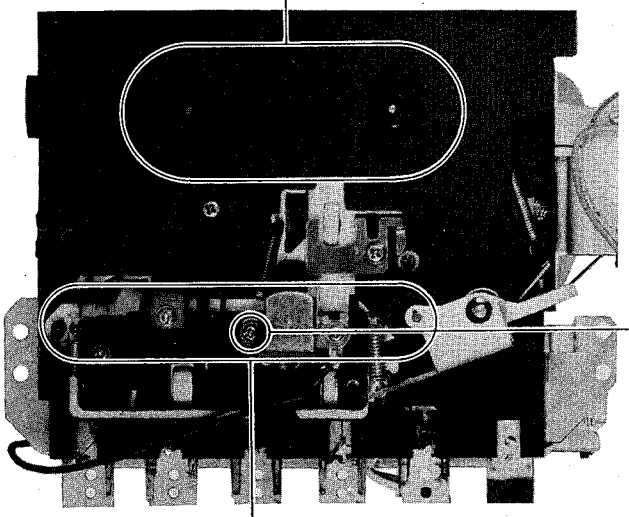
1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

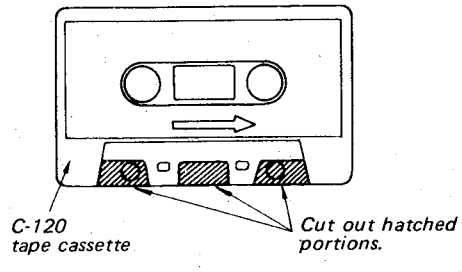
Mode	Cassette type torque meter	Torque
Forward	CQ-102C	22.5~55 g-cm (0.31–0.76 oz-inch)
Fast Forward	CQ-201B	65~125 g-cm (0.9–1.73 oz-inch)
Rewind	CQ-201B	65~125 g-cm (0.9–1.73 oz-inch)
Back Tension	CQ-102C	2~5 g-cm (0.03–0.07 oz-inch)
Tape Pulling Force	CQ-403	More than 200 g (more than 7.05 oz)



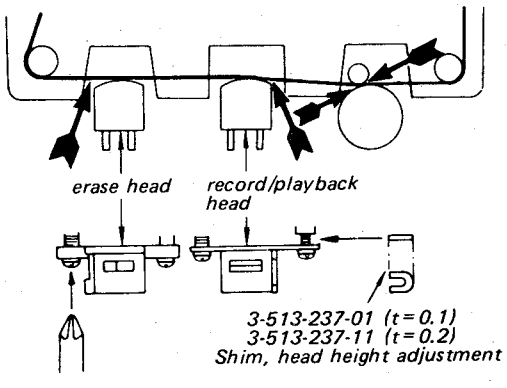
Head Height Adjustment

– Playback Mode –

1. Prepare an adjustment cassette as shown below.



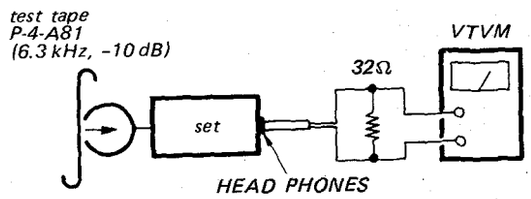
2. In record mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at arrowed portions.



Record/playback Head Azimuth Adjustment

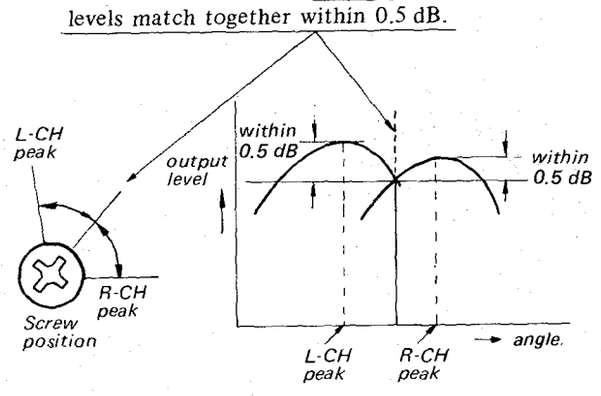
Procedure:

1. Mode: playback

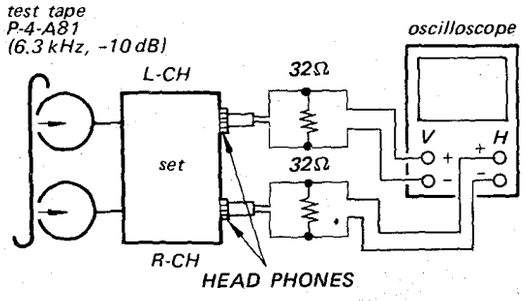


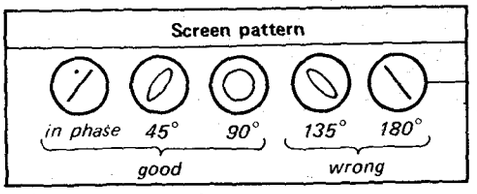
*

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 0.5 dB.

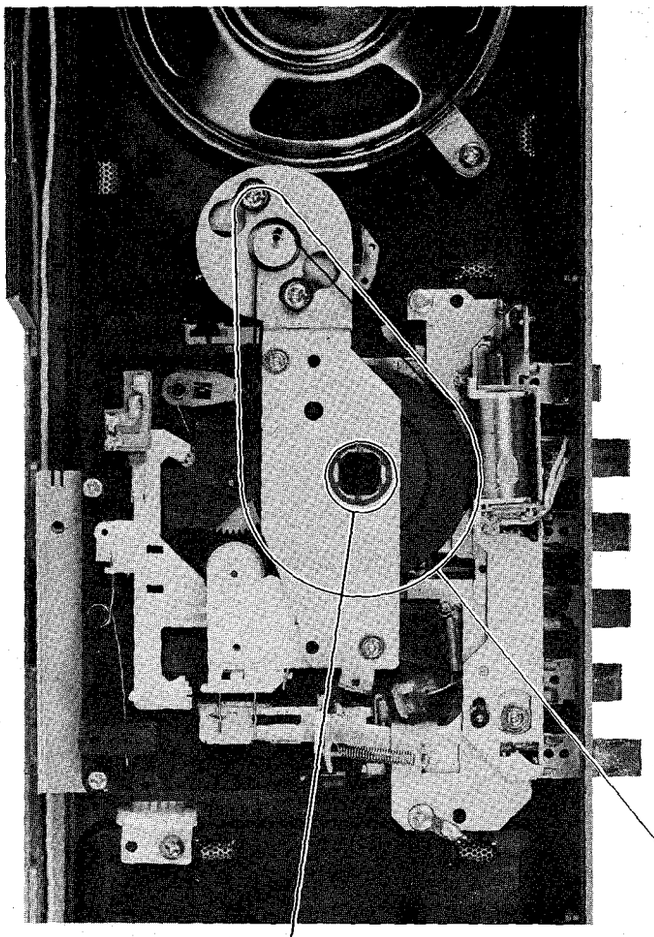


3. Phase Check
   Mode: playback



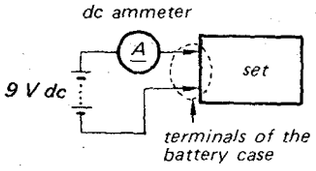


Adjustment Location:



Flywheel Thrust Play Adjustment

– Playback Mode –



1. Turn the thrust screw counterclockwise until the screw tip is detached from the flywheel shaft.
2. Gradually turn the thrust screw clockwise to the position where the motor current suddenly increases.
3. Then, turn the thrust screw counterclockwise about ¼ turn from the position obtained in step 2.

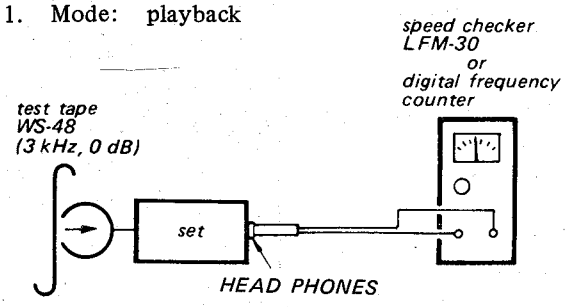
Tape Speed Adjustment

Setting:

VOLUME control: mechanical mid

Procedure:

1. Mode: playback

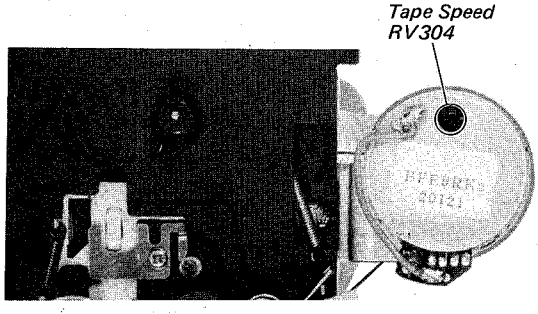


2. Adjust RV304 to obtain the specification.

Specification:

Speed checker	Digital frequency counter
−1.5% – +2%	2,955 – 3,060Hz

Frequency difference between beginning and end of tape should be within 1%(30Hz).

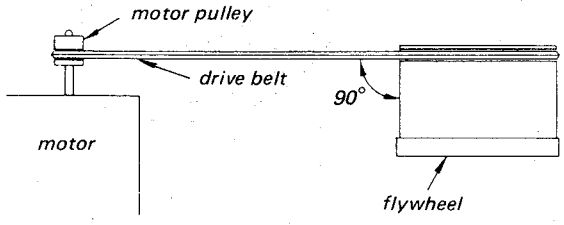


Motor Pulley Height Adjustment

After replacing the motor pulley or the flywheel, this adjustment should be performed.

Procedure:

1. Keep the set horizontal.
2. Adjust the motor pulley height so that the drive belt is straight without twist.



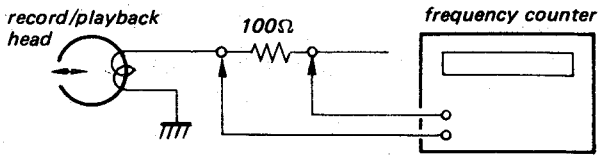
Bias OSC Frequency Adjustment

Setting:

TONE control: HIGH
FUNCTION switch: TAPE

Procedure:

1. Mode: record

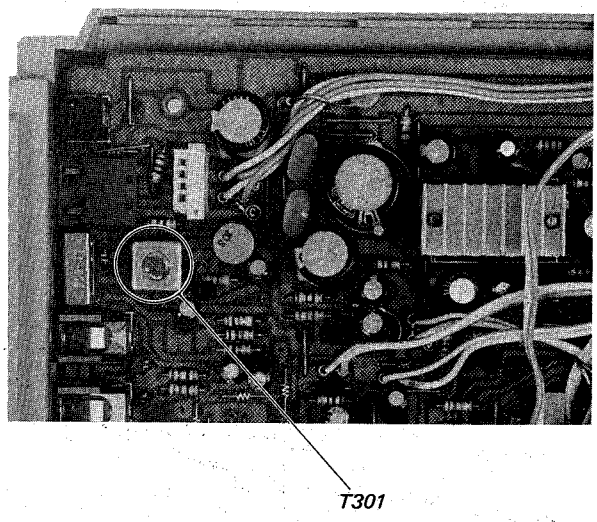


Connect 100Ω resistor as shown.

2. Adjust T301 to obtain the specification.

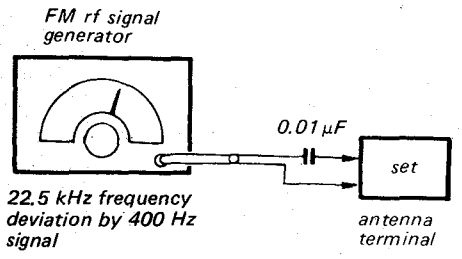
Specification:

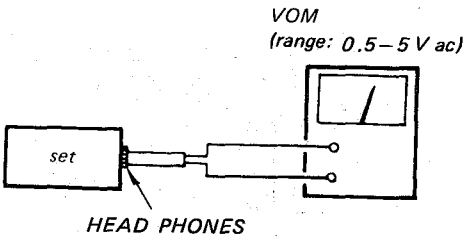
ISS SW (S304)	f
1	43.2~52.8kHz
2	38.7~47.3kHz



2. ELECTRICAL ADJUSTMENTS

FM SECTION

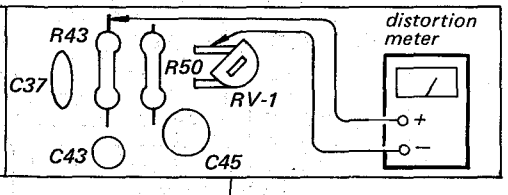


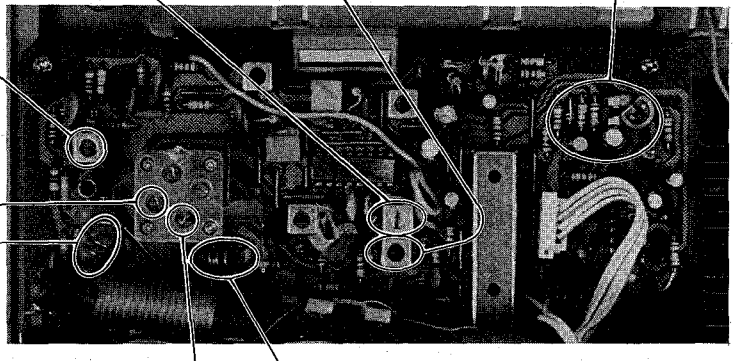


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM IF ALIGNMENT 1 (10.7 MHz with modulation)	
Adjust for a maximum reading on VOM.	
T1	T2

FM IF ALIGNMENT 2 (10.7 MHz with no modulation)
Adjust for a minimum reading on distortion meter.
T3





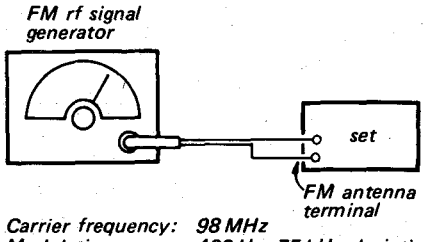
FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM.	
107.8 MHz	CT1
87.4 MHz	L1

CT2	L2
107.8 MHz	87.4 MHz
Adjust for a maximum reading on VOM.	
FM FREQUENCY COVERAGE ADJUSTMENT	

19 kHz Adjustment

A) Regular Method

Procedure:



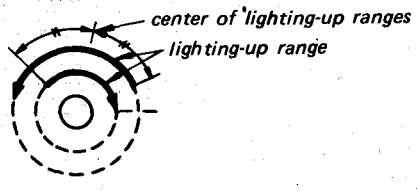
Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100%)
Output level: 501 mV (54 dB)

1. Tune the set to 98 MHz.
2. Adjust RV1 for 19 kHz ±100 Hz on the counter.

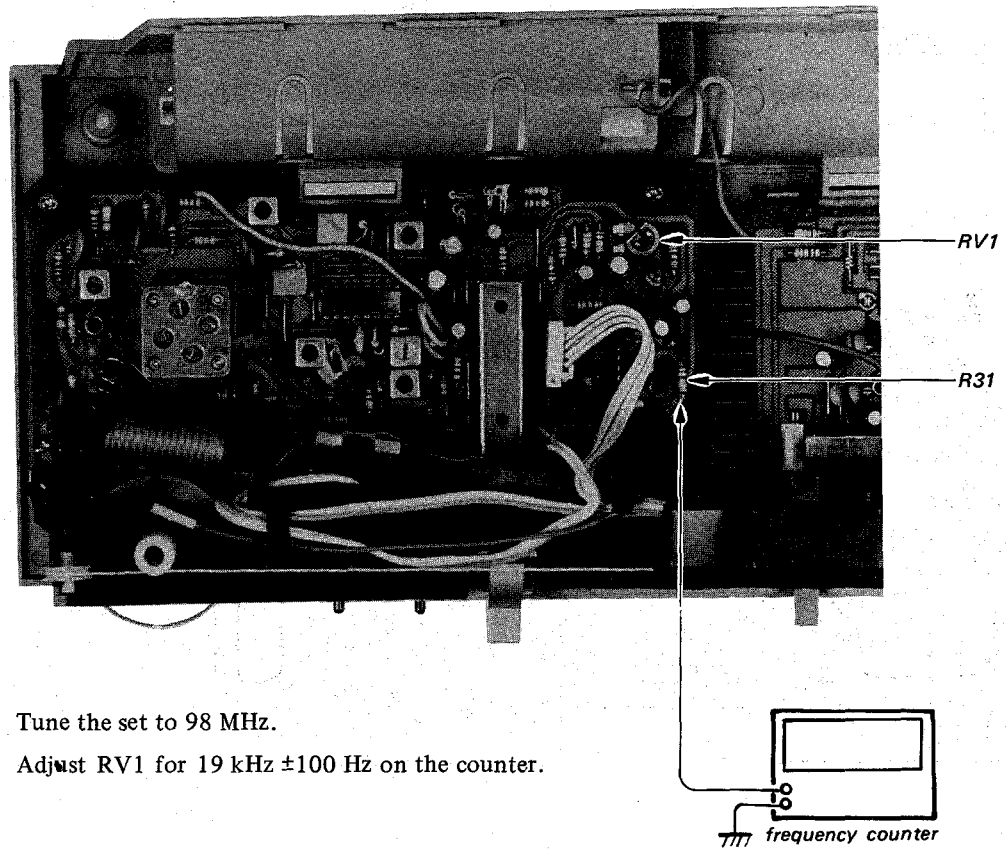
B) Simple Method

Procedure:

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV1 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RV1 at the center of the lighting-up range of both turns as shown below.



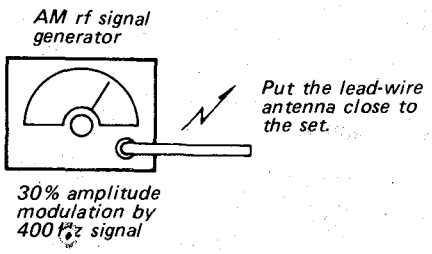
Tuner Board

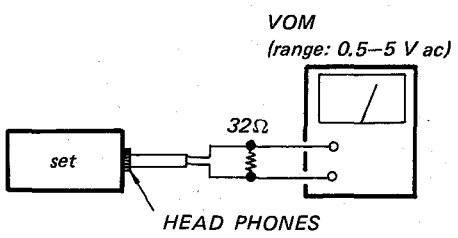


MW/LW SECTION

Setting:

BAND switch: MW or LW



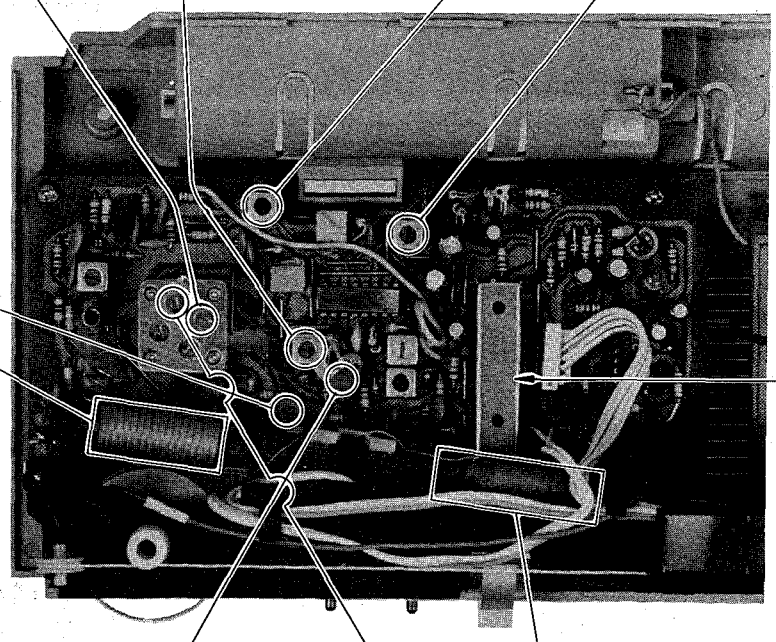


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
1,650kHz	520kHz
CT4	T5

AM IF ALIGNMENT	
Adjust for a maximum reading on VOM.	
455kHz (468kHz)	
T6	T4

( ): UK model



240kHz	CT5
160kHz	L4-2
Adjust for a maximum reading on VOM.	
LW TRACKING ADJUSTMENT	

BAND
FM ST
↓
FM
↓
MW
↓
LW

145kHz	CT6
260kHz	
Adjust for a maximum reading on VOM.	
LW FREQUENCY COVERAGE ADJUSTMENT	

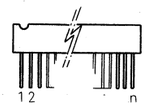
CT3	L4-1
1,400kHz	600kHz
Adjust for a maximum reading on VOM.	
MW TRACKING ADJUSTMENT	

- Repeat the MW and LW tracking adjustments several times alternately.

SECTION 4
DIAGRAMS

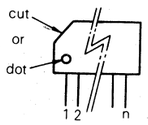
Semiconductors Lead Layout

BA338



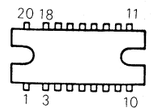
2SC710-13

LA3160



2SD882

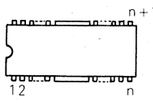
LA4125



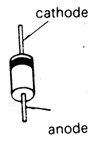
(Top view)

10E2
1N4002
1S188AM
1S188FM
1S2687S-1
RD5.6E-B
SD113
1D22AM
1D261

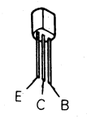
UPC1018C-E
APC1197C



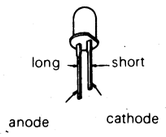
(Top view)



2SC945
2SC1364
2SC1675
2SC2001

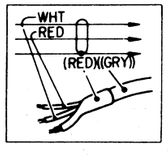


SLT135B



Note:

- Color code of sleeving over the end of the jacket.



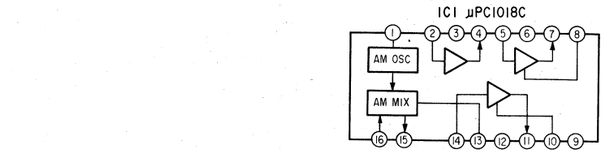
- ○— : parts extracted from the component side.
- [ ]— : indicates side identified with part number.
- ▒▒ : component-side pattern.
- ▬▬▶ : L-CH signal path
- ▬·▬▶ : R-CH signal path

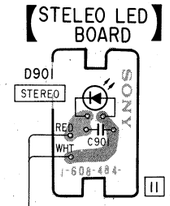
A B C D E F

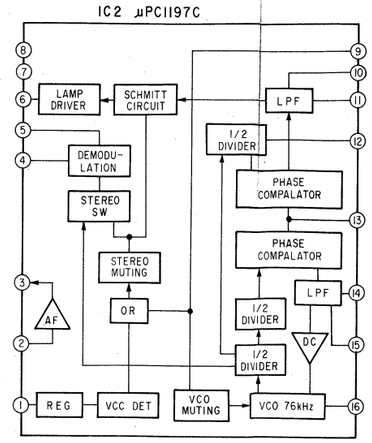
1
2
3
4
5

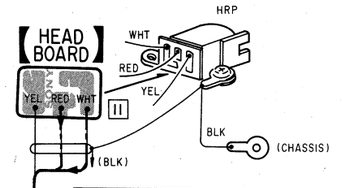
4-1. MOUNTING DIAGRAM

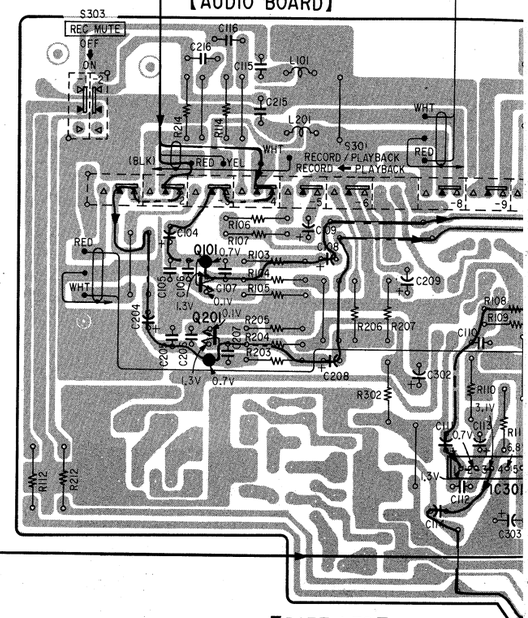
– Conductor Side –

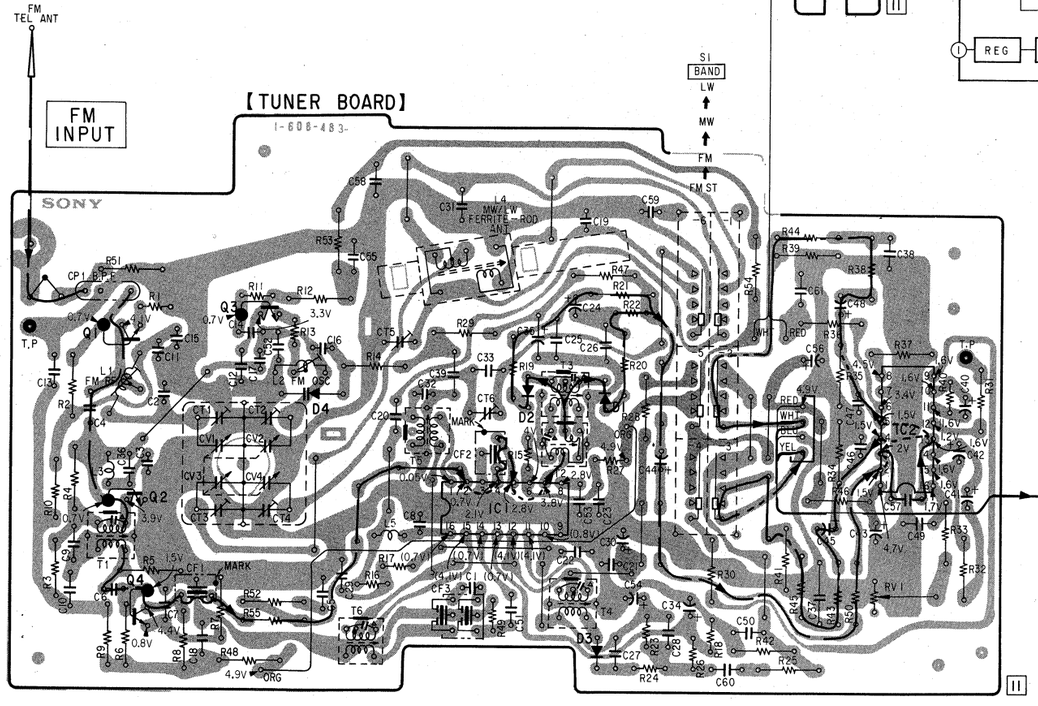


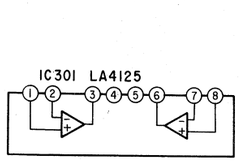


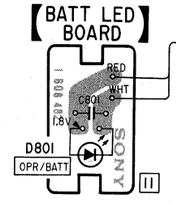










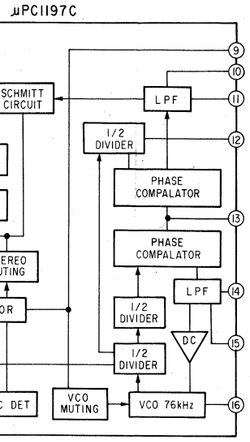


Q・IC	1 2 4	3	IC1	IC2
D	4	2	1 3	901

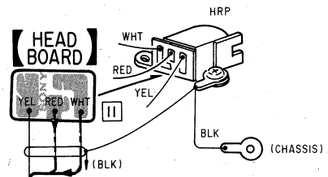
Q・IC	101 201	IC301
D	801	

E F G H I J K

μPC1197C

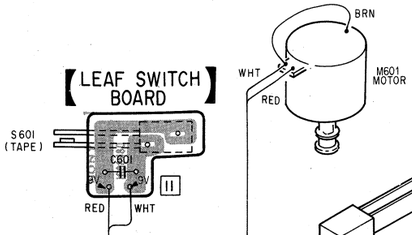


【HEAD BOARD】

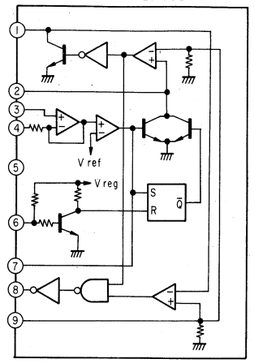


PLAYBACK INPUT

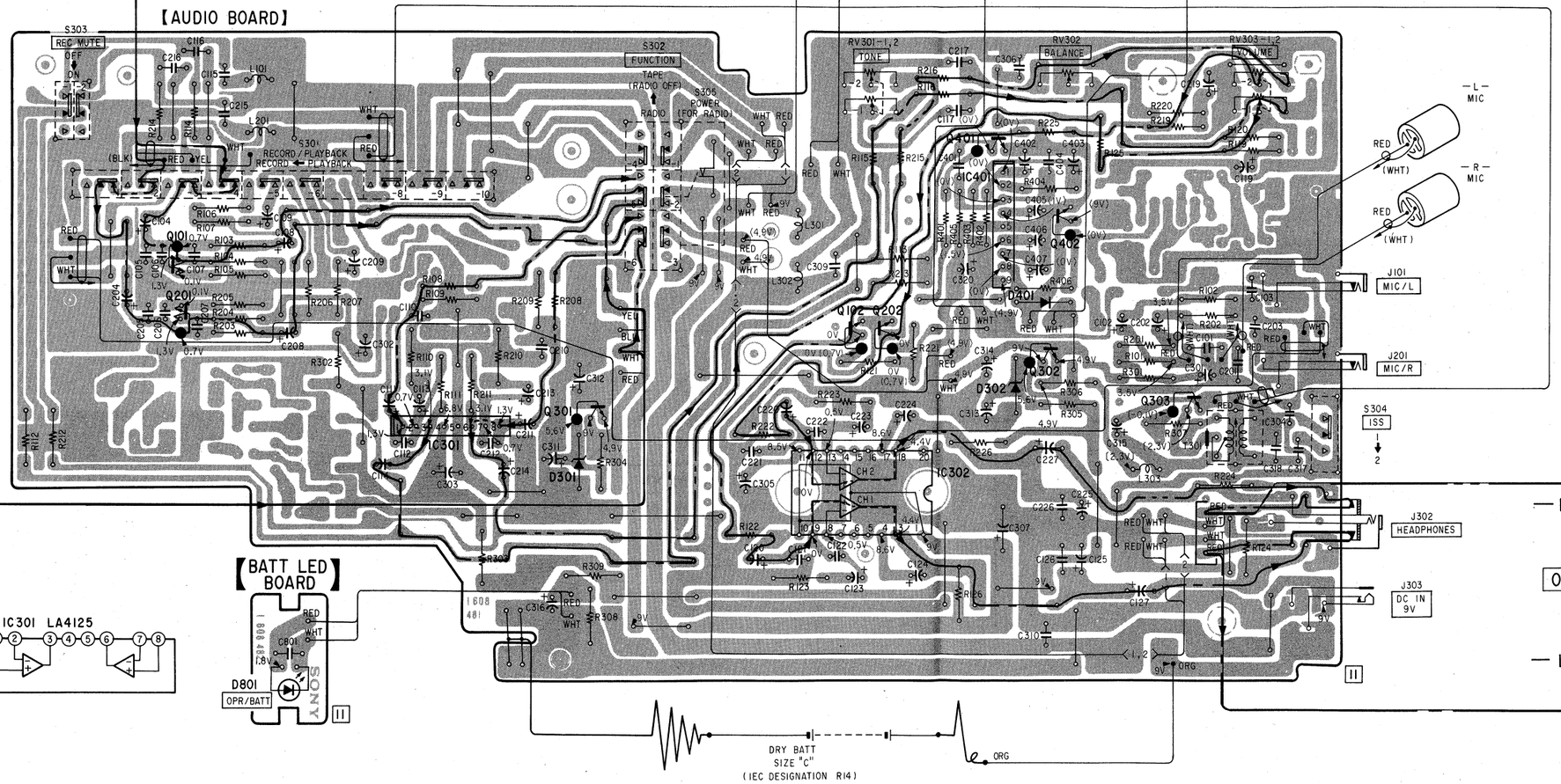
【LEAF SWITCH BOARD】



IC401 BA338

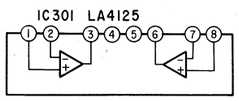


【AUDIO BOARD】



【BATT LED BOARD】

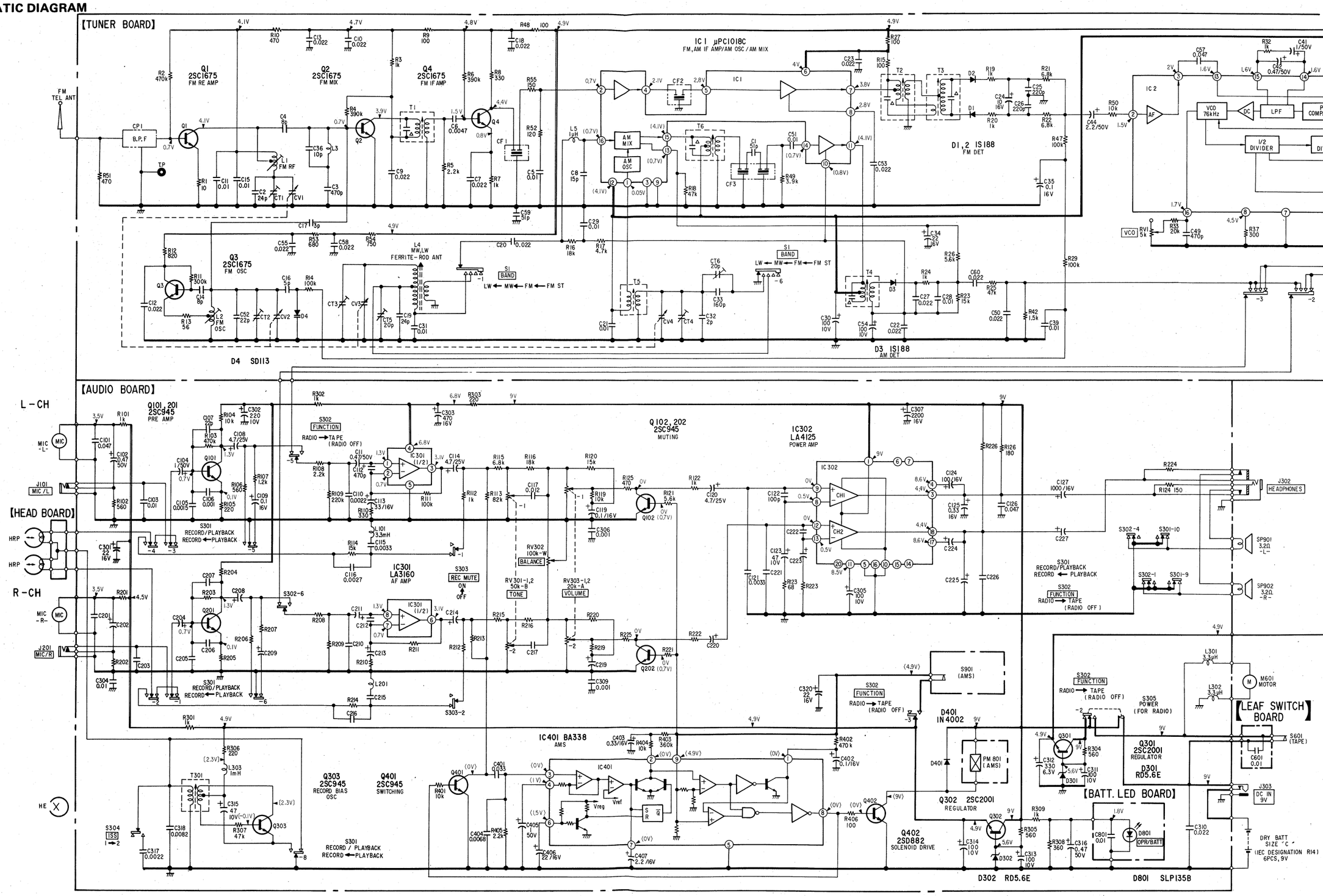
IC301 LA4125



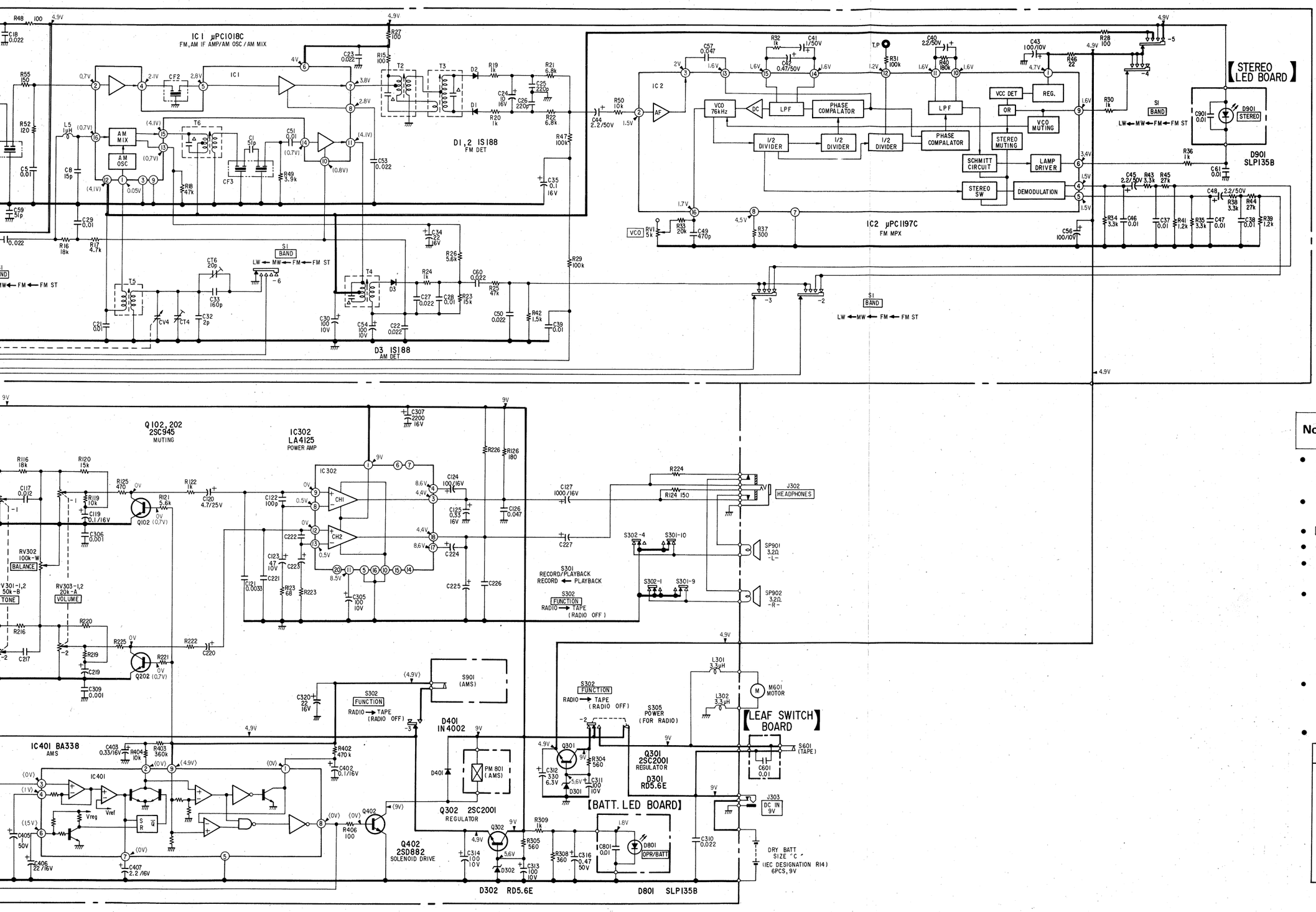
DRY BATT
SIZE "C"
(IEC DESIGNATION R14)
6PCS, 9V

Q・IC						Q・IC
	101 201	IC301	301	102, 202 IC302	401 IC401 402 302	303
D	801		301		302 401	D

4-2. SCHEMATIC DIAGRAM



CFS-5L



Note: Voltages are measured with a VOM (50kΩ/V).

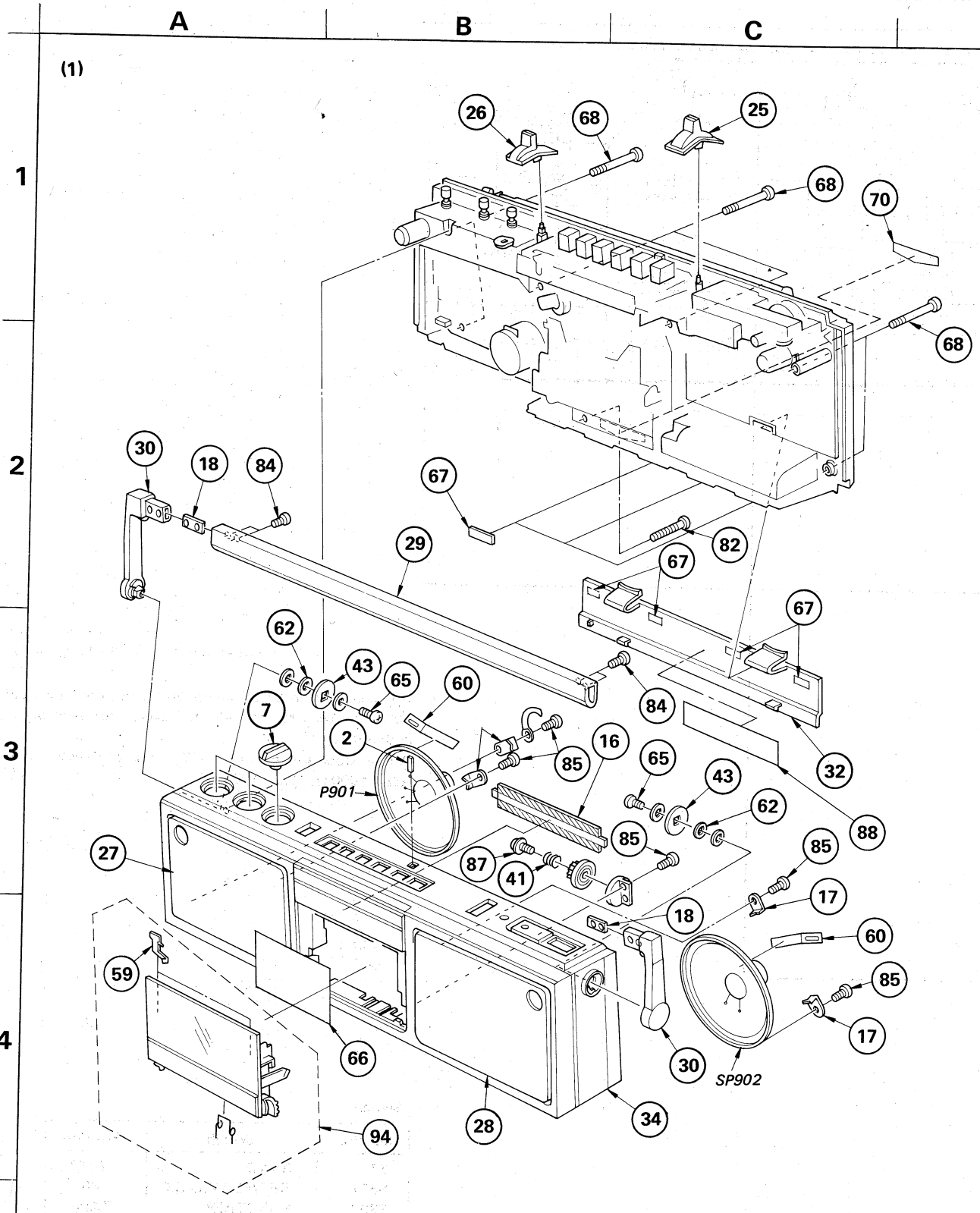
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ▭ : adjustment for repair.
- ——: B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM.

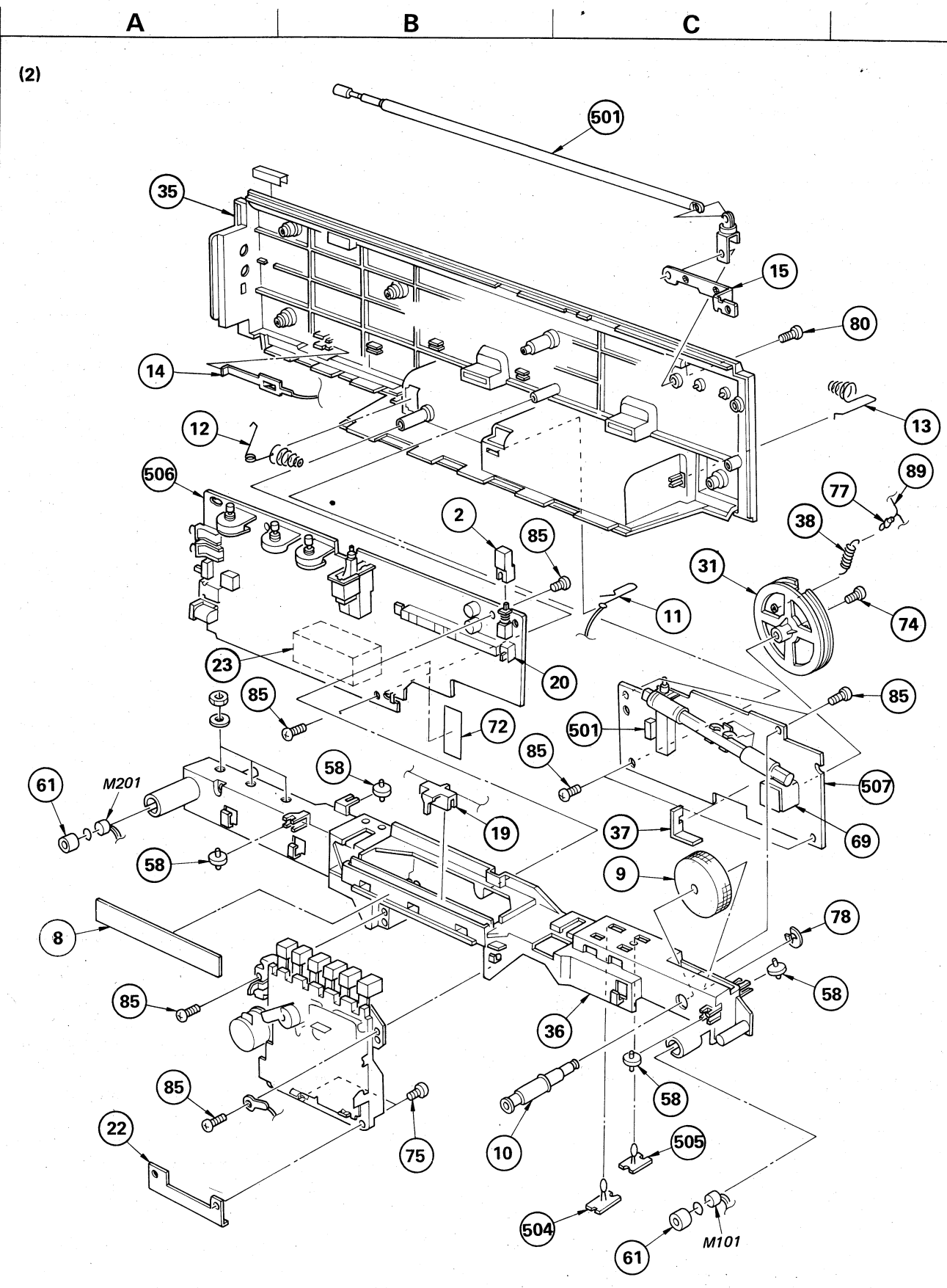
  NO MARK : FM
  ( ) : AM
  [ ] : RECORD
  < > : AMS.
- Voltage variations may be noted due to normal production tolerances.

- Switch

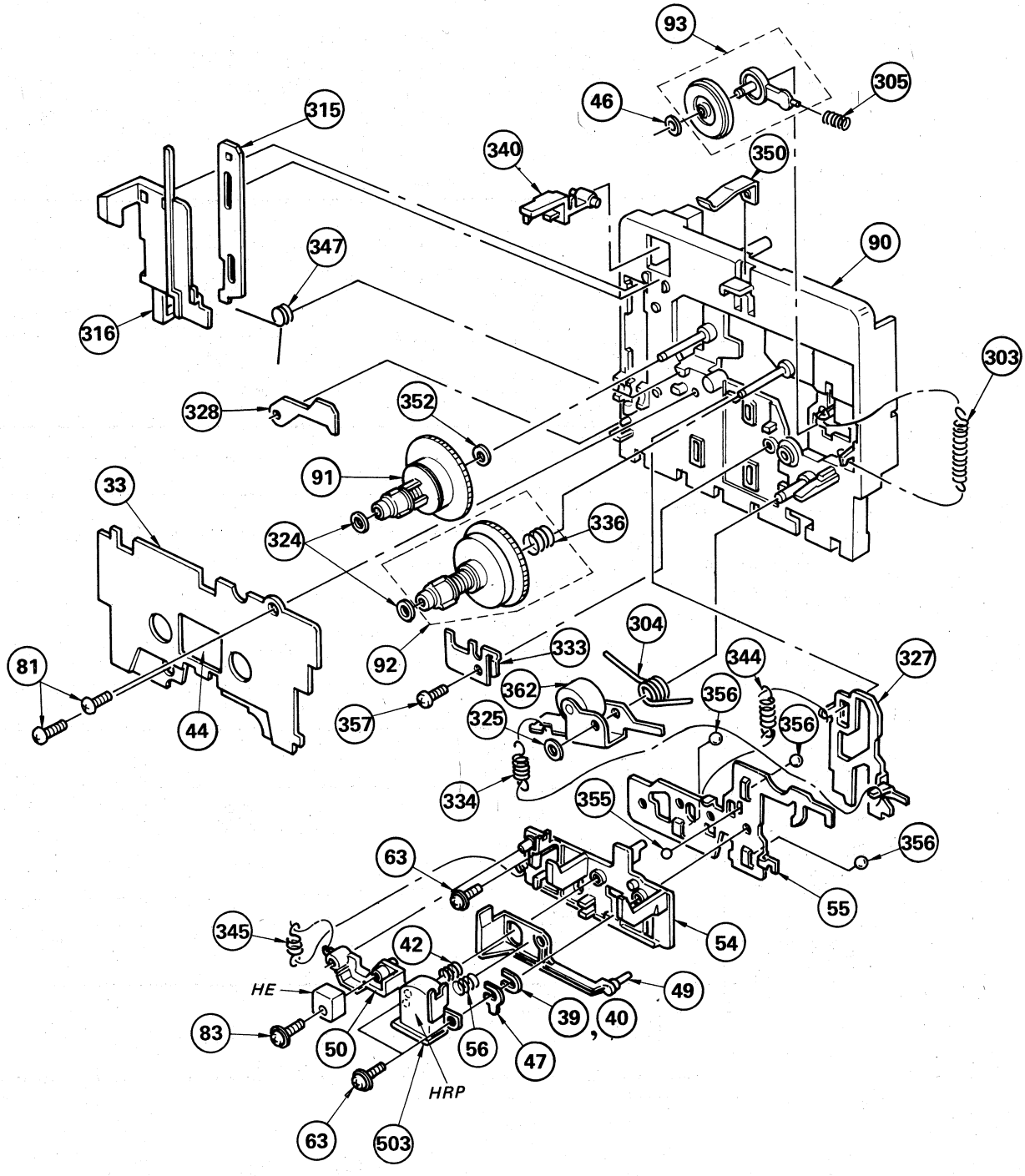
Ref. No.	Switch	Position
S1	BAND	FM ST
S301	REC/PLAYBACK	PB
S302	FUNCTION	TAPE
S303	REC MUTE	OFF
S304	ISS	I
S305	POWER	OFF
S601	MOTOR	OFF
S901	AMS	OFF

SECTION 5
EXPLODED VIEWS AND PARTS LIST



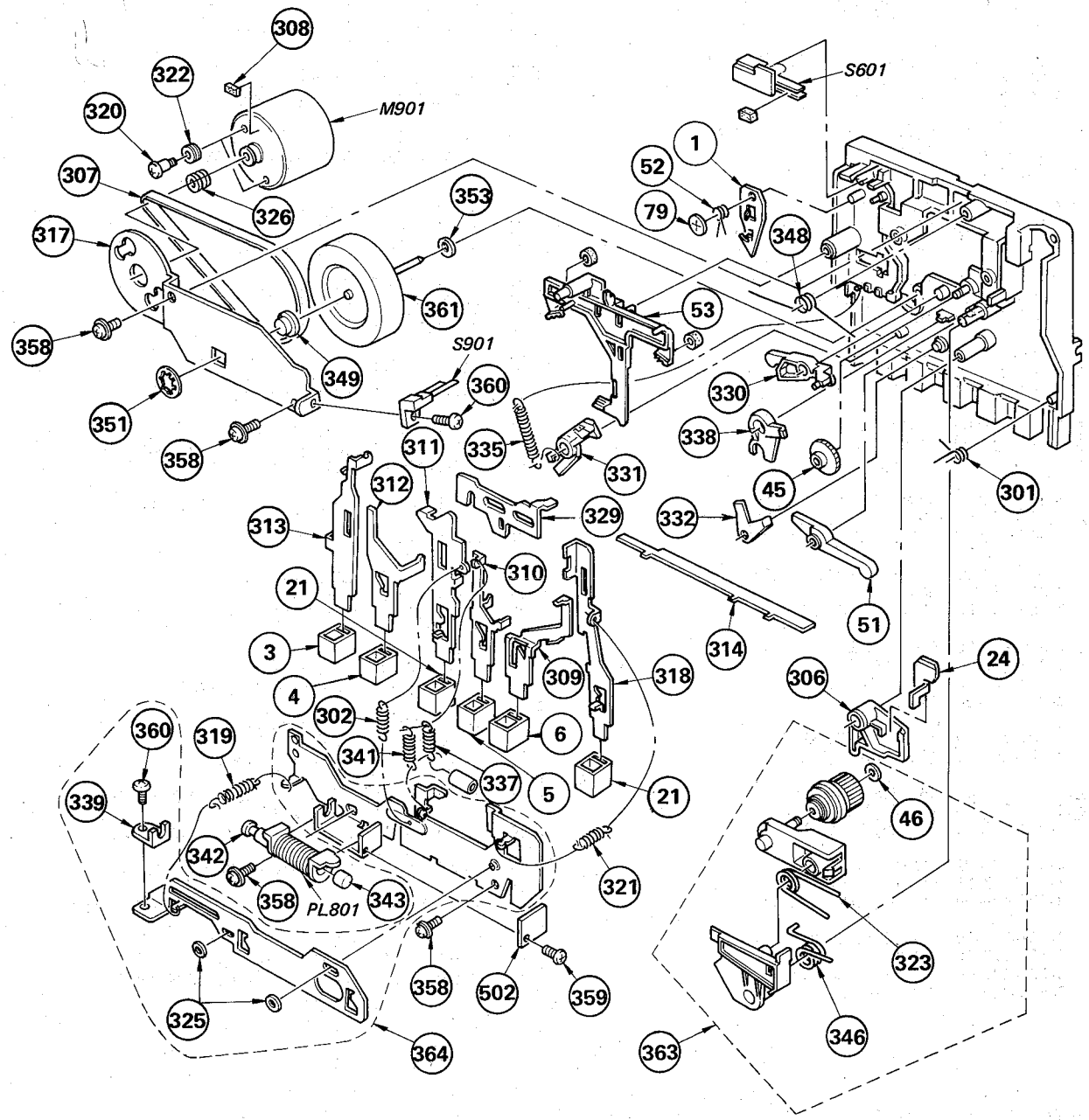

A
B
C
1
2
3
4
5
(2)
501
35
15
80
14
13
12
89
77
506
38
2
85
31
11
74
23
20
85
72
501
85
85
61
M201
58
19
37
507
69
58
9
8
78
58
85
36
85
58
22
75
10
505
504
61
M101

(3)


93
305
46
315
340
350
347
90
316
303
328
352
91
33
336
324
92
304
333
81
344
327
362
356
357
325
356
44
334
355
356
63
55
345
54
42
HE
49
39
40
83
50
56
47
HRP
63
503

A	B	C	D

(4)


308
322
320
M901
307
326
353
317
361
358
S901
349
360
351
311
335
331
358
312
313
329
310
21
3
309
318
4
302
6
341
337
5
21
360
319
339
342
358
PL801
343
321
325
358
502
359
364
S601
1
52
79
348
53
330
338
45
301
332
51
314
24
306
46
323
346
363

GENERAL SECTION

No.	Part No.	Description
1	3-309-017-00	PLATE, LOCK, PAUSE
2	3-309-205-00	PUSH BUTTON (REC MUTE)
3	3-309-206-00	BUTTON, PAUSE
4	3-309-207-00	BUTTON, REC
5	3-309-208-00	BUTTON, FWD
6	3-309-209-00	BUTTON, STOP
7	3-309-210-00	KNOB, CONTROL (VOLUME, BALANCE, TONE)
8	3-309-211-00	PLATE, BACK
9	3-309-212-00	KNOB, TUNING
10	3-309-213-00	SHAFT, TUNING
11	3-309-214-00	SPRING (+)
12	3-309-215-00	SPRING (-)
13	3-309-216-00	SPRING
14	3-309-217-00	TERMINAL, BATTERY
15 ♦	3-309-218-00	TERMINAL, ANTENNA
16	3-309-219-00	PLATE, TRANSPARENT
17	3-309-220-00	STOPPER, SPEAKER
18	3-309-221-00	BRACKET, HANDLE
19	3-309-223-00	POINTER
20 ♦	3-309-224-00	TIP, CL
21	3-309-225-00	BUTTON, PFR
22 ♦	3-309-226-00	BRACKET, MD
23 ♦	3-309-227-00	HEAT SINK
24 ♦	3-309-229-00	SPRING
25	3-309-230-00	KNOB (A), LEVER (BAND)
26	3-309-231-00	KNOB (B), LEVER (FUNCTION)
27	3-309-232-00	PLATE (LEFT), PANCHING
28	3-309-233-00	PLATE (RIGHT), PANCHING
29	3-309-234-00	HANDLE
30	3-309-235-00	PLATE, SIDE, HANDLE
31 ♦	3-309-236-00	DRUM, DIAL
32	3-309-237-00	LID, BATTERY CASE
33	3-309-239-00	PLATE, BLIND, MD
34	3-309-240-00	CABINET
35	3-309-241-00	(UK)....LID, REAR
35	3-309-241-11	(AEP)...LID, REAR
36 ♦	3-309-242-00	CHASSIS, MOLD
37 ♦	3-309-243-00	PLATE (A), SHIELD
38	3-430-219-00	SPRING, TENSION
39	3-513-237-01	PLATE (t=0.1)
40	3-513-237-11	PLATE (t=0.2)
41	3-536-499-00	SPRING, COMPRESSION
42	3-539-237-00	SPRING (3), COMPRESSION
43	3-552-410-00	WASHER
44	3-556-221-00	PLATE, ORNAMENTAL
45	3-558-620-11	GEAR, REWIND

GENERAL SECTION

No.	Part No.	Description
46	3-558-708-01	WASHER, STOPPER
47	3-558-737-11	SHIM, RP HEAD (t=0.2)
48	3-558-737-21	SHIM, RP HEAD (t=0.3)
49	3-561-802-11	TENSION (PU)
50	3-561-817-11	LEVER, ERASE HEAD
51	3-561-818-11	LEVER, REVIEW
52	3-561-832-00	SPRING
53	3-561-857-11	LEVER, BRAKE
54	3-561-858-11	BRACKET, HEAD
55	3-561-859-11	BASE (L), HEAD
56	3-564-332-00	SPRING, COMPRESSION
57	.....	
58	3-564-506-00	PULLEY (A)
59	3-571-315-00	SPRING
60	3-571-361-00	TAPE, ALMINIUM
61	3-572-119-00	CUSHION, MICROPHONE
62	3-701-445-01	WASHER
63	3-701-465-00	SCREW, WASHER
64	.....	
65	3-703-137-00	SCREW, TAPPING
66	3-793-828-11	QUESTIONNAIRE
67	3-831-441-XX	SPACER
68	3-846-072-21	SCREW, TAPPING, +P 3X48
69 ♦	3-890-726-00	PLATE (C), SHIELD
70	3-998-901-00	LABEL (A,B), SERIAL NUMBER
71	.....	
72	4-308-878-XX	CUSHION
73	4-310-379-00	LABEL, NEMKO
74	7-621-770-87	SCREW +P 2.6X5
75	7-605-649-24	SCREW, PWH 2X8
76	.....	
77	7-623-617-01	EYELET, 2X4
78	7-624-108-04	STOP RING 4.0, TYPE -E
79	7-624-190-11	STOP RING 3, TYPE-CS
80	7-682-548-04	SCREW +B 3X8
81	7-685-134-19	SCREW +P 2.6X8
82	7-685-153-14	SCREW +P 3X30 TYPE2 NON-SLIT
83	7-687-202-21	PTPWH 2X4
84	7-685-546-19	SCREW +BTP 3X8 TYPE2 N-S
85	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S
86	.....	
87	7-687-233-21	SCREW, TOTSU PTPWH 2.6X6, TYPE2
88	9-911-815-03	CUSHION, BATTERY
89	9-911-825-42	STRING, DIAL
90	A-3102-048-A	CHASSIS (T2) ASSY, MECHANICAL

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

GENERAL SECTION

No.	Part No.	Description
91	A-3130-027-B	TABLE ASSY, REEL, SUPPLY
92	A-3130-029-A	TABLE ASSY, REEL, TAKE-UP
93	A-3136-031-A	IDLER COMPLETE ASSY, FWD
94	A-3247-076-A	LID ASSY, CASSETTE

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
	1-463-431-00	(UK).....ADAPTOR, AC (AC-230A)
	1-463-432-00	(AEP).....ADAPTOR, AC (AC-230A)
	3-309-245-00	INDIVIDUAL CARTON
	3-309-246-00	(AEP)...SHEET, PROTECTION, ADAPTOR
	3-309-247-00	(UK)....SHEET, PROTECTION, ADAPTOR
	3-309-248-00	(UK)....SLEEVE, ADAPTOR
	3-309-249-00	(AEP)...SLEEVE, ADAPTOR
	3-309-250-00	CUSHION (LEFT)
	3-309-251-00	CUSHION (RIGHT)
	3-533-397-00	BAG, PRTECTION (SET)
	3-533-397-00	BAG, POLYETHYLENE
	3-701-632-00	BAG, POLYETHYLENE (MANUAL INSTRUCTION)
	3-703-539-01	INSTRUCTION, COMMONNESS
	3-773-176-11	MANUAL, INSTRUCTION
	3-773-191-41	(UK)....MANUAL INSTRUCTION
	8-893-527-00	TAPE, DEMO (CD-814)

MECHANISM SECTION

No.	Part No.	Description
301	3-309-001-00	SPRING
302	3-309-002-00	SPRING, TENSION
303	3-309-003-00	SPRING, TENSION
304	3-309-004-00	SPRING
305	3-309-005-00	SPRING, COMPRESSION
306	3-309-007-00	LEVER (T), REC
307	3-309-008-00	BELT, CAPSTAN
308	3-309-009-00	SPACER, MOTOR
309 ♦	3-309-010-00	LEVER, STOP BUTTON
310 ♦	3-309-011-00	LEVER, FWD BUTTON
311 ♦	3-309-012-00	LEVER, FF BUTTON
312 ♦	3-309-013-00	LEVER, REC BUTTON
313 ♦	3-309-014-00	LEVER, PAUSE BUTTON
314 ♦	3-309-015-01	PLATE, LOCK, BUTTON
315	3-309-018-00	LEVER (T), RECORD PREVENTION
316	3-309-019-00	LEVER, EJECT
317	3-309-024-00	RETAINER, T.M
318 ♦	3-309-026-00	LEVER, REW BUTTON
319	3-542-481-00	SPRING, TENSION
320	3-489-077-31	SCREW, MOTOR STOPPER
321	3-549-861-00	SPRING, TENSION
322	3-553-029-00	CUSHION, MOTOR
323	3-558-652-00	SPRING
324	3-558-708-01	WASHER, STOPPER
325	3-558-708-21	WASHER, STOPPER
326	3-558-754-31	PULLEY, MOTOR
327 ♦	3-561-824-11	LEVER, RP
328	3-561-825-11	LEVER, ERASE
329	3-561-831-11	LEVER (B), RECORD
330	3-561-839-11	LEVER, FF
331	3-561-845-11	LEVER, S.OFF RELEASE
332	3-561-849-00	LEVER (A), RECORD
333	3-561-852-00	SPRING
334	3-561-883-00	SPRING, TENSION
335	3-561-884-00	SPRING, TENSION
336	3-561-886-00	SPRING, COMPRESSION
337	3-561-897-00	SPRING, TENSION
338	3-563-909-11	LEVER (D), RECORD
339	3-563-931-00	GUIDE, PL
340	3-564-301-11	LEVER (A), RECORD PREVENTION
341	3-564-331-00	SPRING, TENSION
342 ♦	3-564-347-00	ARBOR, MOVABLE
343 ♦	3-564-348-00	ARBOR, FIXED
344	3-570-206-00	SPRING, TENSION
345	3-570-231-00	SPRING, TENSION

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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

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- F : nonflammable

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

MECHANISM SECTION

No.	Part No.	Description
346	3-570-234-00	SPRING
347	3-570-235-00	SPRING
348	3-570-241-00	SPRING
349	3-573-467-00	RETAINER (D), THRUST
350	3-579-019-11	SPRING
351 ♦	3-638-192-00	RING, RETAINING (TYPE CS)
352	3-701-437-11	WASHER
353	3-701-438-21	WASHER
354	.....	
355	7-671-112-02	STEEL, BALL 2MM
356	7-671-113-01	BALL, STEEL 3MM
357	7-685-134-14	SCREW, PTP 2.6X8 TYPE2
358	7-685-534-24	SCREW, PTPWH 2.6X8, TYPE2
359	7-685-781-01	SCREW +PTT 2X4 (S)
360	7-685-791-09	SCREW, BTT 2.6X5
361	A-3109-019-A	FLYWHEEL ASSY
362	A-3110-008-A	PINCH ROLLER ASSY
363	A-3136-032-A	IDLER COMPLETE ASSY, FR
364 ♦	A-3164-265-A	RETAINER ASSY, LEVER

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501 ♦	1-561-440-00	SOCKET, CONNECTOR 4P			
502 ♦	1-602-735-00	PC BOARD			
503 ♦	1-608-479-00	PC BOARD, HEAD			
504 ♦	1-608-482-00	PC BOARD, BATT LED			
505 ♦	1-608-484-00	PC BOARD, STEREO LED			
506 ♦	A-3266-170-A	MOUNTED PCB, TUNER			
507 ♦	A-3270-110-A	MOUNTED PCB, AUDIO			
ATT	1-501-262-00	ANTENNA, TELESCOPIC			
C1	1-101-882-00	CERAMIC	51PF	5%	50V
C14	1-102-865-00	CERAMIC	8PF	0.5PF	50V
C31	1-104-077-00	POLYSTYRENE	0.001MF	5%	50V
C49	1-104-069-00	POLYSTYRENE	470PF	5%	50V
C52	1-102-601-00	CERAMIC	24PF	5%	50V
C59	1-101-882-00	CERAMIC	51PF	5%	50V
C112	1-102-114-00	CERAMIC	470PF	10%	50V
C212	1-102-114-00	CERAMIC	470PF	10%	50V
CF1	1-527-808-00	FILTER, CERAMIC			
CF2	1-527-808-00	FILTER, CERAMIC			
CF3	1-527-996-00	FILTER, CERAMIC			
CP1	1-231-720-00	FILTER, BANDPASS			
CT1	1-151-410-00	CAP, TUNING, POLYETHYLENE			
CT2	1-151-410-00	CAP, TUNING, POLYETHYLENE			
CT3	1-151-410-00	CAP, TUNING, POLYETHYLENE			
CT4	1-151-410-00	CAP, TUNING, POLYETHYLENE			
CT5	1-141-227-00	TRIMAR, CERAMIC			
CT6	1-141-227-00	TRIMAR, CERAMIC			
CV1	1-151-410-00	CAP, TUNING, POLYETHYLENE			
CV2	1-151-410-00	CAP, TUNING, POLYETHYLENE			
CV3	1-151-410-00	CAP, TUNING, POLYETHYLENE			
CV4	1-151-410-00	CAP, TUNING, POLYETHYLENE			
D1	8-719-026-11	DIODE 1T261			
D2	8-719-026-11	DIODE 1T261			
D3	8-719-422-21	DIODE 1T22AM			
D4	8-719-768-71	DIODE 1S2687S-1			
D301	8-719-156-07	DIODE RD5.6E-B			
D302	8-719-156-07	DIODE RD5.6E-B			
D401	8-719-200-02	DIODE 10E2			
D801	8-719-901-35	DIODE SLP135B			
D901	8-719-901-35	DIODE SLP135B			
HE	8-658-096-02	HEAD, ERASE EBF5-36			
HRP	1-543-180-00	HEAD, RECORD/PLAYBACK			

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC1	8-759-110-15	IC UPC1018C-E
IC2	1-806-469-11	IC UPC1197C
IC301	1-806-283-11	IC LA3160
IC302	8-759-841-25	IC LA4125
IC401	1-806-467-00	IC BA338
J101	1-507-510-00	JACK, MIC/L
J201	1-507-510-00	JACK, MIC/R
J302	1-507-794-00	JACK, HEADPHONE
J303	1-507-815-00	JACK, DC IN 9V
L1	♦;1-426-116-00	COIL, FM RF
L2	♦;1-425-792-00	COIL, FM OSC
L3	♦;1-409-293-00	COIL, AIR CORE
L4	1-402-005-00	ANTENNA, FERRITE-ROD (LW/MW)
L5	1-408-171-00	MICRO INDUCTOR 1UH
L101	1-408-701-00	MICRO INDUCTOR 3.3MMH
L201	1-408-701-00	MICRO INDUCTOR 3.3MMH
L301	1-408-177-00	MICRO INDUCTOR 3.3UH
L302	1-408-177-00	MICRO INDUCTOR 3.3UH
L303	1-408-702-00	MICRO INDUCTOR 1MMH
M101	8-814-194-20	MICROPHONE (C-1006C)
M201	8-814-194-20	MICROPHONE (C-1006C)
M901	A-3133-160-A	MOTOR ASSY
PL801	1-454-324-00	SOLENOID, PLUNGER
Q1	8-729-671-13	TRANSISTOR 2SC710-13
Q2	8-729-671-13	TRANSISTOR 2SC710-13
Q3	8-729-671-13	TRANSISTOR 2SC710-13
Q4	8-729-671-13	TRANSISTOR 2SC710-13
Q101	8-729-663-47	TRANSISTOR 2SC1364
Q102	8-729-663-47	TRANSISTOR 2SC1364
Q201	8-729-663-47	TRANSISTOR 2SC1364
Q202	8-729-663-47	TRANSISTOR 2SC1364
Q301	8-729-100-13	TRANSISTOR 2SC2001-L
Q302	8-729-100-13	TRANSISTOR 2SC2001-L
Q303	8-729-663-47	TRANSISTOR 2SC1364
Q401	8-729-663-47	TRANSISTOR 2SC1364
Q402	8-729-188-23	TRANSISTOR 2SD882-P
RV1	1-228-662-00	RES, ADJ, CARBON 5K (VCO)
RV301	1-228-806-00	RES, VAR, CARBON 50K/50K (TONE)
RV302	1-228-798-00	RES, VAR, CARBON 100K (BALANCE)
RV303	1-228-805-00	RES, VAR, CARBON 20K/20K (VOLUME)

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S1	1-554-287-00	SWITCH, LEVER SLIDE (BAND)
S301	1-554-285-00	SWITCH, SLIDE (PB/REC)
S302	1-554-286-00	SWITCH, LEVER SLIDE (FUNCTION)
S303	1-554-178-00	SWITCH, PUSH (REC MUTE)
S304	1-552-370-00	SWITCH, SLIDE (ISS)
S305	1-552-804-00	SWITCH, LEAF (POWER)
S601	♦;1-608-480-00	PC BOARD, LEAF SW (MOTOR)
S901	1-554-284-00	SWITCH, LEAF (AMS)
SP901	1-503-181-00	SPEAKER 3.2
SP902	1-503-181-00	SPEAKER 3.2
T1	1-403-872-00	I.F.T
T2	1-404-144-00	TRANSFORMER, DISCRI (FM)
T3	1-403-953-00	TRANSFORMER, DISCRIMINATOR
T4	1-404-423-00	IFT (SMALL TYPE)
T5	1-406-043-00	COIL, MW OSC
T6	1-404-425-00	COIL, IF
T301	1-433-206-21	TRANSFORMER, BIAS OSCILLATOR

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CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → : Use the high voltage rated one.					
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					→	1-121-726-00
1.0					→	1-121-391-00
2.2					→	1-121-450-00
3.3	→	→	→	1-121-392-00	→	1-121-393-00
4.7	→	→	→	1-121-395-00	→	1-121-396-00
10	→	→	1-121-651-00	1-121-398-00	→	1-121-738-00
22	→	→	1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33	→	→	1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47	→	1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	→	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-419-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000	–	1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	–
3300	1-121-661-00	1-123-075-00	1-123-071-00	–	–	–

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	–	–	–	–
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-250-00	1-123-026-00	–	1-123-028-00
3.3	1-121-995-00	–	1-123-004-00	1-123-006-00
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-121-997-00	1-121-757-00	–	–
47	1-123-251-00	1-121-919-00	–	–
100	1-123-084-00	–	–	–

CERAMIC CAPACITORS

CAP. (pF)	RATING 50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

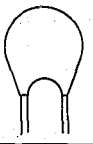
CERAMIC (SEMICONDUCTOR) CAPACITORS

CAP. (μF)	RATING → : Use the high voltage rated one. 25 VOLT. PART No.	50 VOLT. PART No.	CAP. (μF)	25 VOLT. PART No.	50 VOLT. PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

MYLAR CAPACITORS

CAP. (μF)	RATING 50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	–	–
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	–	–
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	–	–
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	–	–
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

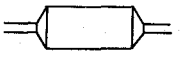
TANTALUM CAPACITORS



→: Use the high voltage rated one.

CAP. (μF)	RATING 3.15 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	25 VOLT. PART No.	35 VOLT. PART No.
0.01					→	→	1-131-396-00
0.015						→	1-131-397-00
0.022						→	1-131-398-00
0.033						→	1-131-399-00
0.047						→	1-131-400-00
0.068					→	→	1-131-401-00
0.1					→	→	1-131-402-00
0.15					→	→	1-131-403-00
0.22					→	→	1-131-404-00
0.33					→	1-131-409-00	1-131-405-00
0.47	–	–	–	–	1-131-412-00	→	1-131-406-00
0.68	–	–	–	1-131-415-00	→	1-131-410-00	1-131-407-00
1.0	–	–	1-131-418-00	–	1-131-413-00	→	1-131-408-00
1.5	–	1-131-421-00	–	1-131-416-00	→	1-131-411-00	1-131-348-00
2.2	1-131-424-00	–	1-131-419-00	–	1-131-414-00	1-131-355-00	1-131-349-00
3.3	–	1-131-422-00	–	1-131-417-00	1-131-362-00	1-131-356-00	1-131-350-00
4.7	1-131-425-00	–	1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00
6.8	–	1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00
10	1-131-426-00	1-131-383-00	1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00	1-131-360-00	–
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00		
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00			
47	1-131-393-00	1-131-387-00	1-131-381-00	–			
68	1-131-394-00	1-131-388-00	–	–			
100	1-131-395-00	–	–	–			

TANTALUM CAPACITORS



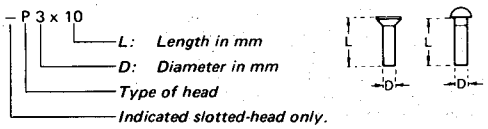
CAP. (μF)	RATING 3 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	35 VOLT. PART No.
0.033						1-131-273-00
0.047						1-131-274-00
0.068						1-131-275-00
0.1						1-131-276-00
0.15						1-131-277-00
0.22			–	–	1-131-262-00	1-131-278-00
0.33			–	–	1-131-263-00	1-131-279-00
0.47			1-131-169-00	–	1-131-264-00	1-131-280-00
0.68			–	1-131-258-00	1-131-265-00	1-131-281-00
1.0			1-131-254-00	–	1-131-266-00	1-131-282-00
1.5		1-131-250-00	–	–	1-131-267-00	1-131-283-00
2.2		–	–	1-131-259-00	1-131-268-00	1-131-284-00
3.3		–	1-131-255-00	–	1-131-269-00	–
4.7		1-131-251-00	1-131-171-00	–	1-131-270-00	–
6.8		–	–	1-131-260-00	1-131-271-00	–
10	–	–	1-131-256-00	–	1-131-272-00	–
15	–	1-131-252-00	–	1-131-261-00		
22	–	–	1-131-257-00	–		
33	1-131-176-00	1-131-253-00	1-131-173-00	–		
47	1-131-288-00	1-131-174-00	–	–		
100	1-131-177-00					

1/4 WATT CARBON RESISTORS

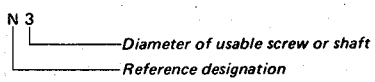
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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